

## ABSTRACT OF THE DISCLOSURE

An absorbent article and a method for preparing an absorbent article is disclosed. The absorbent article has a core comprised of pulp, a polymer or a combination thereof. The absorbent article conforms to a certain Distribution Index (DI) or a certain Distribution Index (DI) profile that confers one or more superior properties to the core and in turn to the absorbent article, such as superior absorbency efficiency and superior cost efficiency. The method for preparing the absorbent article uses DI values (e.g.,  $DI_{max}$ ,  $DI_{min}$ ,  $DI_{male}$  and  $DI_{female}$ ) or a DI profile as design parameters for providing absorbent articles having one or more superior characteristics.